



## SEQUENCE LISTING

<110> Harley, John  
<120> Methods and Reagents for Diagnosis of Autoantibodies  
<130> OMRF 114 CIP (2)  
<140> 07/867,819  
<141> 1992-04-13  
<150> 07/472,947  
<151> 1990-01-31  
<150> 07/648,205  
<151> 1991-01-31  
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Cys Asp Glu Phe Arg Lys Ile Lys Pro Lys Asn Ala Lys Gln Pro  
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Arg Pro Pro Pro Pro Gly Ile Arg Gly Pro Pro  
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T, V and Y.

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Arg Gly Pro Pro Pro Pro Gly Met Arg Pro Pro Arg  
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Thr Phe Lys Ala Phe Asp Lys His Met  
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Gly Ser

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Ile Cys His Gln Ile Glu Tyr Tyr Phe Gly Asp Phe Asn Leu Pro Arg  
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Asp Lys Phe Leu Lys  
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Trp Val Pro Leu Glu Ile Met Ile Lys Phe Asn Arg  
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Asn Arg Leu Asn Arg Leu Thr Thr Asp Phe Asn Val Ile Val Glu  
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Gly Glu Ile Lys Trp Ile Asp Phe Val Arg Gly Ala Lys  
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Ser Leu Asn Lys Trp Lys Ser Lys Gly Arg Arg Phe Lys Gly Lys Gly  
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Lys Gly Asn Lys  
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Gly Asn Leu Gln Leu Arg Asn Lys Glu Val Thr Trp  
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Ile Phe Val Val Phe Asp Ser Ile Glu  
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Tyr Lys Asn Asp Val Lys Asn Arg Ser Val Tyr Ile Lys Gly Phe Pro  
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Thr

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Thr Asp Phe Asn Val Ile Val Glu Ala  
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Glu Gly Ile Ile Leu Phe Lys Glu Lys Ala Lys  
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Arg Glu Asp Leu His Ile Leu Phe  
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Cys Leu Leu Lys Phe Ser Gly Asp  
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Thr Gly Pro Val Lys Arg Ala Arg  
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Lys Val Glu Ala Lys Leu Arg Ala Lys Gln  
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Met Asn Arg Leu His Arg Phe Leu  
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Leu Cys Phe Gly Ser Glu Gly Gly Thr  
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Ser Glu Gly Gly Thr Tyr Tyr Ile Lys Glu Gln  
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Glu Ile Lys Ser Phe Ser Gln Glu Gly Arg Thr  
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Ser Gln Glu Gly Arg Thr Thr Lys Gln  
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Gly Arg Thr Thr Lys Gln Glu Pro Met  
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Ile Ser Thr Lys Gln Ala Ala Phe Lys Ala Val Ser  
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Ala Phe Lys Ala Val Ser Glu Val Cys  
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Ser	Met	Lys	Cys	Gly	Met	Trp	Gly	Arg	Ala
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Gly	Met	Trp	Gly	Arg	Ala	Leu	Arg	Lys	Ala	Ile	Ala
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<400> 48

Ala Leu Ala Val Thr Lys Tyr Lys Gln Arg Asn Gly Trp Ser His Lys



1

5

10

15

Asp Leu Leu Arg Leu Ser His  
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Leu Leu Arg Leu Ser His Leu Lys Pro Ser Ser  
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His Glu Leu Tyr Lys Glu Lys Ala  
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Leu Tyr Lys Glu Lys Ala Leu Ser Val  
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Lys Ala Leu Ser Val Glu Thr Glu Lys Leu Leu Lys Tyr Leu  
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Lys Leu Leu Lys Tyr Leu Glu Ala  
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Leu Glu Ala Val Glu Lys Val Lys Arg Thr Lys Asp Glu  
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His Leu Leu Thr Asn His Leu Lys Ser Lys Glu Val Trp Lys Ala Leu  
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Leu Gln Glu Met Pro Leu  
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<400> 56

Ala Leu Leu Arg Asn Leu Gly Lys Met Thr Ala  
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Leu Gly Lys Met Thr Ala Asn Ser  
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Leu Cys Asn Glu Lys Leu Leu Lys Lys Ala Arg Ile His Pro Phe His  
1 5 10 15

Ile

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Thr Tyr Lys Thr Gly His Gly Leu Arg Gly Lys Leu Lys Trp Arg Pro  
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Asp Glu

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Ala Leu Asp Ala Ala Phe Tyr Lys  
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Ala Ala Phe Tyr Lys Thr Phe Lys Thr Val Glu Pro Thr Gly Lys Arg  
1 5 10 15

Phe Leu Leu Ala  
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Ala Ser Met Asn Gln Arg Val Leu Gly Ser  
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<400> 63

Ala Met Cys Met Val Val Thr Arg  
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Ala Phe Ser Asp Glu Met Val Pro  
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Val Pro Cys Pro Val Thr Thr Asp  
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Val Leu Met Ala Met Ser Gln Ile  
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Thr Asp Cys Ser Leu Pro Met Ile  
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Cys Ser Leu Pro Met Ile Trp Ala Gln Lys Thr Asn Thr Pro Ala  
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Thr Phe Ala Gly Gly Val His Pro Ala Ile  
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Ile Val Thr Lys Tyr Ile Thr Lys Gly Trp Lys Glu Val His Glu Leu  
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Ala Leu Phe Ala Pro Arg Asp Pro  
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Glu Arg Met Glu Arg Lys Arg Arg Glu Lys  
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His Met Val Tyr Ser Lys Arg Ser Gly Lys Pro Arg Gly Tyr



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Tyr Lys His Ala Asp Gly Lys Lys Ile Asp Gly Arg Arg Val Leu  
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Val Glu Arg Gly Arg Thr Val Lys  
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Val Lys Gly Trp Arg Pro Arg Arg  
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Arg Arg Ser Arg Ser Arg Asp Lys

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Ser Arg Glu Arg Ser Lys Asp Lys

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Lys Asp Lys Asp Arg Asp Arg Lys Arg Arg Ser Ser Arg Ser Arg  
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Arg Arg Ser His Arg Ser Glu Arg  
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<222> (2)..(9)

<223> Binding site

<400> 84

Ile Lys Lys Asp Glu Leu Lys Lys Ser Leu  
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<210> 85  
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<400> 85

Leu Val Ser Arg Ser Leu Lys Met Arg Gly Gln Ala Phe  
1 5 10

<210> 86  
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<400> 86

Gln Gly Phe Pro Phe Tyr Asp Lys Pro Met Arg Ile  
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<210> 87  
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<400> 87

Ile Ile Ala Lys Met Lys Gly Thr Phe  
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<210> 88  
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<400> 88

Glu Arg Asp Arg Lys Arg Glu Lys Arg Lys Pro Lys Ser  
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<400> 89

Gln Glu Thr Pro Ala Thr Lys Lys Ala  
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Ala Leu Gln Gly Phe Lys Ile Thr  
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Ala Met Lys Ile Ser Phe Ala Lys Lys  
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Ser Val Arg Lys Thr His Cys Ser Gly Arg Lys His Lys Glu Asn Val  
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Lys Asp

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<400> 93

Lys Asp Tyr Tyr Gln Lys Trp Met  
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<210> 94  
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<400> 94

Ala Phe Gln Gln Gly Lys Ile Pro Pro  
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<210> 95  
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<222> (1)..(8)  
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<400> 95

Lys Ile Pro Pro Thr Pro Phe Ser  
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<400> 96

Pro Pro Pro Pro Ser Leu Pro Gly  
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<400> 97

Ser Leu Pro Gly Pro Pro Arg Pro  
1 5

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<400> 98



Gly Pro Pro Arg Pro Gly Met Met Pro Ala  
1 5 10

<210> 99  
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<400> 99

Pro Pro Pro Pro Gly Met Met Pro  
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<400> 100

Gly Pro Ala Pro Gly Met Arg Pro Pro  
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<210> 101  
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Pro Pro Met Met Arg Pro Pro Ala  
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<210> 102  
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<212> PRT  
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Pro Gly Met Thr Arg Pro Asp Arg  
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<400> 103

Ile Gly Thr Phe Lys Ala Phe Asp  
1 5

<210> 104  
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<400> 104

Asp Cys Asp Glu Phe Arg Lys Ile  
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<400> 105

Pro Lys Asn Ala Lys Gln Pro Glu  
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<210> 106  
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<400> 106

Met Pro Pro Pro Gly Met Arg Pro  
1 5





<210> 107  
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<400> 107

Gln Gln Val Met Thr Pro Gln Gly  
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<400> 108

Gln Gly Arg Gly Thr Val Ala Ala  
1 5

<210> 109  
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<400> 109

Ala Pro Thr Gln Tyr Pro Pro Gly  
1 5

<210> 110  
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<400> 110

Gly Thr Pro Pro Pro Pro Val Gly  
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<210> 111  
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<400> 111

Ile Met Ala Pro Pro Pro Gly Met  
1 5

2

<210> 112  
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<400> 112

Ile Gly Met Pro Pro Gly Met  
1 5

<210> 113  
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<400> 113

Gly Met Pro Pro Gly Met Arg  
1 5

<210> 114  
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<400> 114

Pro Pro Gly Met Arg Pro Pro Pro  
1 5

<210> 115  
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<400> 115

Met Arg Pro Pro Pro Gly Ile  
1 5

<210> 116  
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<400> 116

Pro Ala Pro Gly Met Arg Pro Pro  
1 5

<210> 117  
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<212> PRT  
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<400> 117

Pro Pro Pro Gly Met Ile Pro Pro  
1 5

<210> 118  
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<400> 118

Met Pro Pro Pro Gly Met Arg Pro  
1 5

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<400> 119

Pro Pro Pro Gly Xaa Arg  
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<400> 120

Pro Pro Pro Pro Pro  
1 5

<210> 121  
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<400> 121

Pro Gly Ile Arg Gly Pro Pro Pro  
1 5



<210> 122  
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<400> 122

Pro Pro Pro Gly Ile Arg Pro Pro  
1 5

<210> 123  
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<400> 123

Thr Phe Lys Ala Phe Asp Lys His  
1 5

<210> 124  
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<400> 124

Cys Asp Glu Phe Arg Lys Ile Lys  
1 5

<210> 125  
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<400> 125

Asp Glu Phe Arg Lys Ile Lys Pro  
1 5

<210> 126  
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Glu Phe Arg Lys Ile Lys Pro Lys  
1 5

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Phe Arg Lys Ile Lys Pro Lys Asn  
1 5

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Arg Lys Ile Lys Pro Lys Asn Ala  
1 5

<210> 129  
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<400> 129

Lys Ile Lys Pro Lys Asn Ala Lys  
1 5

<210> 130  
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<400> 130

Ile Lys Pro Lys Asn Ala Lys Gln  
1 5

<210> 131  
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<400> 131

Lys Pro Lys Asn Ala Lys Gln Pro  
1 5

<210> 132  
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<212> PRT  
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<400> 132

Gln Val Met Thr Pro Gln Gly Arg  
1 5

<210> 133  
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<400> 133

Val Met Thr Pro Gln Gly Arg Gly  
1 5

<210> 134  
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<400> 134

Met Thr Pro Gln Gly Arg Gly Thr  
1 5

<210> 135  
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<400> 135

Thr Pro Gln Gly Arg Gly Thr Val  
1 5

<210> 136  
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<400> 136

Pro Gln Gly Arg Gly Thr Val Ala  
1 5

<210> 137  
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Pro Thr Gln Tyr Pro Pro Gly Arg  
1 5

<210> 138

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<400> 138

Thr Gln Tyr Pro Pro Gly Arg Gly  
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<210> 139

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<212> PRT

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<400> 139

Tyr Pro Pro Gly Arg Gly Thr Pro  
1 5

<210> 140

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Gln Tyr Pro Pro Gly Arg Gly Thr  
1 5

<210> 141

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Pro Pro Gly Arg Gly Thr Pro Pro  
1 5

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<400> 142

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Pro Gly Arg Gly Thr Pro Pro Pro  
1 5

<210> 143  
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<400> 143

Gly Arg Gly Thr Pro Pro Pro Pro  
1 5

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Arg Gly Thr Pro Pro Pro Pro Val  
1 5

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<400> 145

Met Ala Pro Pro Pro Gly Met Arg  
1 5

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Ala Pro Pro Pro Gly Met Arg Pro  
1 5

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<400> 147

Pro Pro Pro Gly Met Arg Pro Pro





1 5

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Pro Pro Gly Met Arg Pro Pro Met  
1 5

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Pro Pro Pro Gly Met Arg Pro Pro  
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<400> 150

Arg Pro Pro Pro Pro Gly Ile Arg  
1 5

<210> 151  
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Pro Pro Pro Pro Gly Ile Arg Gly  
1 5

<210> 152  
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Pro Pro Pro Gly Ile Arg Gly Pro  
1 5

22

<210> 153  
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<400> 153

Pro Pro Gly Ile Arg Gly Pro Pro  
1 5

<210> 154  
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<400> 154

Arg Gly Pro Pro Pro Pro Gly Met  
1 5

<210> 155  
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Gly Pro Pro Pro Pro Gly Met Arg  
1 5

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Pro Pro Pro Pro Gly Met Arg Pro  
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Pro Pro Pro Gly Met Arg Pro Pro  
1 5

<210> 158

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Pro Pro Gly Met Arg Pro Pro Arg  
1 5

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Pro Pro Pro Gly Met Arg Pro  
1 5

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Pro Pro Pro Gly Met Arg  
1 5

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<400> 161

Pro Pro Pro Gly Met  
1 5

I2  
INS  
J1

Sh